

NEWLY ADDED CLAIMS

11. (New) A device comprising:
printer cartridge assembly; and
a first magnetic element coupled to the printer cartridge assembly, the first magnetic element selected to counterbalance a second magnetic element on a printer, the first and second magnetic elements positioned to lie adjacent to a corresponding magnetic field detecting switch on the printer, where the position of the first magnetic element on the cartridge is located so as to change a condition of the corresponding magnetic field detecting switch when the cartridge is inserted into the printer.
12. (New) The device of claim 11 wherein the magnetic field detecting switch comprises a reed switch.
13. (New) The device of claim 11 wherein the corresponding magnetic field detecting switch is an element of a cartridge identification code.
14. (New) A printer cartridge identification system comprising:
a printer cartridge including a first magnetic element disposed opposite a first magnetic field detecting switch located on a printer; and
a printer including the first magnetic field detecting switch corresponding to the first magnetic element on the printer cartridge and a fixed magnetic element adjacent the first magnetic field detecting switch, the fixed magnetic element biasing the first magnetic field detecting switch to a first position, where the first magnetic field detecting switch cooperates to define a printer cartridge identification code
15. (New) The printer cartridge identification system of claim 14 wherein the first magnetic element on the printer cartridge is of a size and strength to counterbalance the fixed magnetic element on the printer when the cartridge is located in the printer.

16. (New) A printer cartridge identification system comprising:
a printer including
a first magnetic field detecting switch,
a fixed magnetic element adjacent the first magnetic field detecting switch on the printer,
the fixed magnetic element having a magnetic field of a predetermined polarity and the magnetic
field detecting switch having a first biased position and a neutral position; and
a printer cartridge having a first magnetic element; the first magnetic element having a
magnetic field of identical polarity to the fixed magnetic element on the printer, whereby the
magnetic field of the first magnetic element on the printer cartridge interacts with the magnetic
field of the fixed magnetic element on the printer to allow return of the adjacent first magnetic
field detecting switch to the neutral position from the first biased position.

17. (New) The printer cartridge identification system of claim 16 where the position
of the first magnetic field detecting switch contributes to define a printer cartridge identification
code.

18. (New) A printer cartridge comprising:
a printer cartridge housing; and
a first magnetic element coupled to the printer cartridge housing, the first magnetic
element positioned to lie adjacent to a corresponding magnetic field detecting switch on a
printer, where the position of the first magnetic element on the cartridge is located so as to
change a condition of the corresponding magnetic field detecting switch when the cartridge is
inserted into the printer.

19. (New) The printer cartridge of claim 18 wherein the magnetic field of the first
magnetic element causes the first magnetic field detecting switch to change from a first position
to a second position when the printer cartridge is inserted into the printer.

20. (New) The printer cartridge of claim 18 wherein the position of the first magnetic
field detecting switch contributes to define a printer cartridge identification code.